

## REMARKS

In response to the Office action dated October 18, 2007, Applicants respectfully request reconsideration based on the above amendments and the following remarks. Applicants respectfully submit that the claims as presented are in condition for allowance.

Claims 6-13 and 20-24 are pending in the present application. Claim 6 has been amended and claim 25 is new, leaving claims 6-13 and 20-24 for consideration upon entry of the above amendments and the following remarks.

Applicants gratefully acknowledge the Examiner's noting the allowable subject matter in claim 22. Support for the claim amendments are at least found in the specification, the figures (e.g., FIGS. 15, 6B7B, 8B, 9B, etc.)

No new matter has been introduced by the above amendments or the following remarks. Reconsideration and allowance of the claims are respectfully requested in view of the above amendments and the following remarks.

### **Claim Rejections Under 35 U.S.C. § 103**

Claims 6-13 and 20-24 stand rejected under 35 U.S.C. § 103(a) as being allegedly unpatentable over Seo et al. (U.S. Patent No. 5,825,437, hereinafter "Seo") in view of Grace et al. (U.S. Patent Publication No. 2002/0196386). The Examiner states that Seo discloses all of the elements of the abovementioned claims except that, *the metal oxide is opaque*, which the Examiner further states is disclosed by Grace. Applicants respectfully traverse.

Amended independent claim 6 recites, *inter alia*,

*"wherein the opaque metal oxide film of the gate wire and the data wire block light, and a side of the metal film is uncovered by the opaque metal oxide film."*

Seo is directed to a structure of a liquid crystal display ("LCD") device. (See Title). The LCD device includes a substrate, a first metal layer and a second metal layer. (See Abstract). The first metal layer includes an aluminum alloy having a first refractory metal, and the second metal layer includes a pure aluminum or an aluminum alloy having a second refractory material. (*Id.*) The LCD prevents the occurrence of hillocks on the aluminum gate metal. (*Id.*) Seo

discloses a signal line that is composed of a gate line 1 (i.e., composed of 2b) arranged on a substrate, a gate electrode 2 (i.e., composed of 2a) connected to gate line 1 and a pad 3 (i.e., composed of 2c). (See Col. 1, line 55 through Col. 2, line 8 and FIGs. 1 and 2).

Grace is directed to a method of making a hybrid display device. (See Title). The display device includes a front panel 12 and a back panel 14, with a layer of liquid crystal material 16 disposed between the front and back panels 12 and 14. (See paragraph [0041]). Grace discloses that the front panel 12 includes front electrodes 24, and the back panel 14 includes back electrodes 34. (See paragraph [0042]). Grace also discloses that the back panel 14 may be opaque. Grace further discloses that the back electrodes 34 may be opaque electrodes. (See paragraph [0048]).

More specifically, Seo specifically teaches in FIG. 8 relied upon by the Examiner a first anodic oxide film 4a is formed on the sidewalls of each first metal layer 2a, 2b and 2c, and a second anodic oxide film 4b is formed on the entire surface of each second metal layer 3a, 3b on lines A-A' and B-B'. (Emphasis added.) (Col. 7, lines 48-53.)

However, Applicants respectfully submit that neither Seo nor Grace disclose, teach or suggest *wherein the opaque metal oxide film of the gate wire and the data wire block light, and a side of the metal film is uncovered by the opaque metal oxide film*, as recited in amended independent claim 6.

Thus, independent claim 6, including claims variously depending therefrom, i.e., claim 7-13, 20, 23 and 24, define over Seo in view of Grace.

Accordingly, it is respectfully requested that the rejection to claims 6-13 and 20-24 under § 103(a) be withdrawn and allow the same to issue.

### **Conclusion**

In view of the foregoing, it is respectfully submitted that the instant application is in condition for allowance. Accordingly, it is respectfully requested that this application be allowed and a Notice of Allowance issued. If the Examiner believes that a telephone conference with Applicants' attorneys would be advantageous to the disposition of this case, the Examiner is cordially requested to telephone the undersigned.

Appl. No. 10/501,597  
Response dated: January 18, 2008  
Reply to Office action of October 18, 2007

In the event the Commissioner of Patents and Trademarks deems additional fees to be due in connection with this application, Applicants' attorney hereby authorizes that such fee be charged to Deposit Account No. 06-1130.

Respectfully submitted,

CANTOR COLBURN LLP

By: /James J. Merrick/  
James J. Merrick 43,801  
Confirmation No. 9540  
CANTOR COLBURN LLP  
55 Griffin Road South  
Bloomfield, CT 06002  
Telephone (860) 286-2929  
Facsimile (860) 286-0115

Date: January 18, 2008